

WHAT IS CLAIMED

- 1 1. A method for creating a patch including content to apply to a computer,
2 comprising:
3 generating a script program including at least one patch attribute statement, wherein
4 each patch attribute statement is called with at least one conditional statement that returns a list
5 of one or more patches if the at least one conditional statement evaluates as true based on a
6 presence of a software or hardware component indicated in a computer object for the
7 computer on which the patch will be applied, and wherein an attribute defined for the attribute
8 statement is associated with the installation of the patch to the computer if the computer includes
9 the returned list of patches; and
10 associating the script program with the patch, wherein the script program executes and
11 processes the computer object including information on installed software and hardware
12 components to determine whether to install the patch on the computer based on attributes of the
13 installation determined by the script program.
- 1 2. The method of claim 1, wherein the patch attribute statement is capable of
2 comprising a patch requires statement, wherein the patch requires attribute indicates that the
3 patches in the returned patch list must be installed in the computer in order for the patch to be
4 installed in the computer.
- 1 3. The method of claim 1, wherein the conditional and patch attribute statements
2 utilize a syntax that is similar to a syntax of commands capable of being interpreted by a
3 command processor interface of the computer operating system, and wherein the syntax of the
4 conditional and patch attribute statements prevent the conditional and patch attribute statements
5 from executing on the computer outside of a patch update interpreter that is capable of
6 interpreting the syntax of the conditional and patch attribute statements.

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1 4. The method of claim 1, wherein the patch attribute statements included in the
2 script program are capable of including patch attribute statements that are members of the set of
3 patch attribute statements comprising:

4 a patch incompatible statement, wherein the patch incompatible attribute indicates that if
5 the patches in the returned patch list are installed in the computer, then the patch cannot be
6 installed in the computer; and

7 a patch prefers statement, wherein the patch prefers attribute indicates that the patches
8 in the returned patch list are recommended to be installed in the computer.

1 5. The method of claim 1, wherein the patch attribute statements are further
2 capable of including a patch constraint attribute called with at least one conditional statement,
3 wherein the patch constraint attribute indicates that the patch can be installed in the computer if
4 each conditional statement evaluates as true.

1 6 The method of claim 1, wherein the conditional statements provided with the
2 attribute statements are members of the set of conditional statements comprising:
3 a first conditional statement that determines whether the computer object indicates that
4 a specified vendor operating system is installed on the computer;
5 a second conditional statement that determines whether the computer object indicates
6 that a specified version of the operating system is installed on the computer;
7 a third conditional statement that determines whether the computer object indicates that
8 the computer includes a specified hardware platform;
9 a fourth conditional statement that determines whether the computer object indicates
10 that a specified software package having a specified version number is installed on the
11 computer;

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20 an eighth conditional statement that determines whether the computer object indicates
21 that the computer includes a specified architecture.

1 8. The method of claim 1, wherein the patch attribute statement includes multiple
2 conditional statements and a different list of patches for each conditional statement, wherein the
3 attribute defined for the attribute statement is associated with the installation of the patch to the
4 system if the system includes the returned list of patches for the conditional statement that
5 evaluated as true.

1 9. A system for determining whether to apply a patch including content onto a
2 computer, comprising:
3 a processor;
4 a computer readable medium including a computer object including information on
5 installed software and hardware components determined in the computer
6 an interpreter program capable of interpreting:
7 (i) a set of conditional statements that return a boolean response based on a
8 presence of a software or hardware component indicated in the computer object for the
9 computer on which the patch will be applied;
10 (ii) a patch attribute statement called with at least one conditional statement that
11 returns a list of one or more patches if the at least one conditional statement evaluates
12 as true, wherein a attribute defined for the attribute statement is associated with the
13 installation of the patch to the computer if the computer includes the returned list of
14 patches; and
15 (iii) a script program including at least one patch attribute statement, wherein the
16 script program statements and computer object are processed to determine whether the
17 at least one conditional statement associated with each patch attribute statement is true
18 and, if so, whether the patches in the returned list are included in the computer.

1 10. The system of claim 9, wherein the interpreter program is further capable of
2 interpreting a patch requires statement, wherein the patch requires attribute indicates that the
3 patches in the returned patch list must be installed in the computer in order for the patch to be
4 installed in the computer.

1 11. The system of claim 9, wherein the conditional and patch attribute statements
2 are implemented in a syntax that is similar to a syntax of commands capable of being interpreted

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7 a patch prefers statement, wherein the patch prefers attribute indicates that the patches
8 in the returned patch list are recommended to be installed in the computer.

7 a third conditional statement that determines whether the computer object indicates that
8 the computer includes a specified hardware platform;

9 a fourth conditional statement that determines whether the computer object indicates
10 that a specified software package having a specified version number is installed on the
11 computer;
12 a fifth conditional statement that determines whether the computer object indicates that
13 a specified software package having a specified version number or higher is installed on the
14 computer;
15 a sixth conditional statement that determines whether the computer object indicates that
16 a specified patch having a specified version number is installed on the computer;
17 a seventh conditional statement that determines whether the computer object indicates
18 that a specified patch package having a specified version number or higher is installed on the
19 computer; and
20 an eighth conditional statement that determines whether the computer object indicates
21 that the computer includes a specified architecture.

1 15. The system of claim 9, wherein the computer object is further capable of
2 indicating a realization that defines a state of the computer, wherein the conditional statements
3 are further capable of determining whether realizations are included in the computer object
4 indicating the presence of the defined realization states at the computer, wherein the attribute
5 defined for the patch attribute statement is associated with the installation of the patch to the
6 computer if the at least one conditional statement is evaluated as true.

1 16. The system of claim 9, wherein the patch attribute statement includes multiple
2 conditional statements and a different list of patches for each conditional statement, wherein the
3 attribute defined for the attribute statement is associated with the installation of the patch to the
4 system if the system includes the returned list of patches for the conditional statement that
5 evaluated as true.

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17. An article of manufacture including program code for determining whether to

1 apply a patch including content to a computer by:

2 providing a computer object including information on software and hardware

3 components in the computer;

4 interpreting a script program including at least one patch attribute statement, wherein

5 each patch attribute statement is called with at least one conditional statement that returns a list

6 of one or more patches if the at least one conditional statement evaluates as true based on a

7 presence of a software or hardware component indicated in the computer object for the

8 computer on which the patch will be applied, and wherein an attribute defined for the attribute

9 statement is associated with the installation of the patch to the computer if the computer includes

10 the returned list of patches; and

11 processing the computer object including information on installed software and

12 hardware components when executing the script program to determine whether to install the

13 patch on the computer based on attributes of the installation determined by the script program.

18. The article of manufacture of claim 17, wherein the patch attribute statement is

2 capable of comprising a patch requires statement, wherein the patch requires attribute indicates

3 that the patches in the returned patch list must be installed in the computer in order for the patch

4 to be installed in the computer.

19. The article of manufacture of claim 17, wherein the conditional and patch

2 attribute statements utilize a syntax that is similar to a syntax of commands capable of being

3 interpreted by a command processor interface of the computer operating system, and wherein

4 the syntax of the conditional and patch attribute statements prevent the conditional and patch

5 attribute statements from executing on the computer outside of a patch update interpreter that is

6 capable of interpreting the syntax of the conditional and patch attribute statements.

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Category	Value
1. <i>Chlorophyll a</i>	1.2
2. <i>Chlorophyll b</i>	0.8
3. <i>Chlorophyll c</i>	0.5
4. <i>Chlorophyll d</i>	0.3
5. <i>Chlorophyll e</i>	0.1
6. <i>Chlorophyll f</i>	0.1
7. <i>Chlorophyll g</i>	0.1
8. <i>Chlorophyll h</i>	0.1
9. <i>Chlorophyll i</i>	0.1
10. <i>Chlorophyll j</i>	0.1
11. <i>Chlorophyll k</i>	0.1
12. <i>Chlorophyll l</i>	0.1
13. <i>Chlorophyll m</i>	0.1
14. <i>Chlorophyll n</i>	0.1
15. <i>Chlorophyll o</i>	0.1
16. <i>Chlorophyll p</i>	0.1
17. <i>Chlorophyll q</i>	0.1
18. <i>Chlorophyll r</i>	0.1
19. <i>Chlorophyll s</i>	0.1
20. <i>Chlorophyll t</i>	0.1
21. <i>Chlorophyll u</i>	0.1
22. <i>Chlorophyll v</i>	0.1
23. <i>Chlorophyll w</i>	0.1
24. <i>Chlorophyll x</i>	0.1
25. <i>Chlorophyll y</i>	0.1
26. <i>Chlorophyll z</i>	0.1
27. <i>Chlorophyll aa</i>	0.1
28. <i>Chlorophyll ab</i>	0.1
29. <i>Chlorophyll ac</i>	0.1
30. <i>Chlorophyll ad</i>	0.1
31. <i>Chlorophyll ae</i>	0.1
32. <i>Chlorophyll af</i>	0.1
33. <i>Chlorophyll ag</i>	0.1
34. <i>Chlorophyll ah</i>	0.1
35. <i>Chlorophyll ai</i>	0.1
36. <i>Chlorophyll aj</i>	0.1
37. <i>Chlorophyll ak</i>	0.1
38. <i>Chlorophyll al</i>	0.1
39. <i>Chlorophyll am</i>	0.1
40. <i>Chlorophyll an</i>	0.1
41. <i>Chlorophyll ao</i>	0.1
42. <i>Chlorophyll ap</i>	0.1
43. <i>Chlorophyll aq</i>	0.1
44. <i>Chlorophyll ar</i>	0.1
45. <i>Chlorophyll as</i>	0.1
46. <i>Chlorophyll at</i>	0.1
47. <i>Chlorophyll au</i>	0.1
48. <i>Chlorophyll av</i>	0.1
49. <i>Chlorophyll aw</i>	0.1
50. <i>Chlorophyll ax</i>	0.1
51. <i>Chlorophyll ay</i>	0.1
52. <i>Chlorophyll az</i>	0.1
53. <i>Chlorophyll ba</i>	0.1
54. <i>Chlorophyll bb</i>	0.1
55. <i>Chlorophyll bc</i>	0.1
56. <i>Chlorophyll bd</i>	0.1
57. <i>Chlorophyll be</i>	0.1
58. <i>Chlorophyll bf</i>	0.1
59. <i>Chlorophyll bg</i>	0.1
60. <i>Chlorophyll bh</i>	0.1
61. <i>Chlorophyll bi</i>	0.1
62. <i>Chlorophyll bj</i>	0.1
63. <i>Chlorophyll bk</i>	0.1
64. <i>Chlorophyll bl</i>	0.1
65. <i>Chlorophyll bm</i>	0.1
66. <i>Chlorophyll bn</i>	0.1
67. <i>Chlorophyll bo</i>	0.1
68. <i>Chlorophyll bp</i>	0.1
69. <i>Chlorophyll bq</i>	0.1
70. <i>Chlorophyll br</i>	0.1
71. <i>Chlorophyll bs</i>	0.1
72. <i>Chlorophyll bt</i>	0.1
73. <i>Chlorophyll bu</i>	0.1
74. <i>Chlorophyll bv</i>	0.1
75. <i>Chlorophyll bw</i>	0.1
76. <i>Chlorophyll bx</i>	0.1
77. <i>Chlorophyll by</i>	0.1
78. <i>Chlorophyll bz</i>	0.1
79. <i>Chlorophyll ca</i>	0.1
80. <i>Chlorophyll cb</i>	0.1
81. <i>Chlorophyll cc</i>	0.1
82. <i>Chlorophyll cd</i>	0.1
83. <i>Chlorophyll ce</i>	0.1
84. <i>Chlorophyll cf</i>	0.1
85. <i>Chlorophyll cg</i>	0.1
86. <i>Chlorophyll ch</i>	0.1
87. <i>Chlorophyll ci</i>	0.1
88. <i>Chlorophyll cj</i>	0.1
89. <i>Chlorophyll ck</i>	0.1
90. <i>Chlorophyll cl</i>	0.1
91. <i>Chlorophyll cm</i>	0.1
92. <i>Chlorophyll cn</i>	0.1
93. <i>Chlorophyll co</i>	0.1
94. <i>Chlorophyll cp</i>	0.1
95. <i>Chlorophyll cq</i>	0.1
96. <i>Chlorophyll cr</i>	0.1
97. <i>Chlorophyll cs</i>	0.1
98. <i>Chlorophyll ct</i>	0.1
99. <i>Chlorophyll cu</i>	0.1
100. <i>Chlorophyll cv</i>	0.1
101. <i>Chlorophyll cw</i>	0.1
102. <i>Chlorophyll cx</i>	0.1
103. <i>Chlorophyll cy</i>	0.1
104. <i>Chlorophyll cz</i>	0.1
105. <i>Chlorophyll da</i>	0.1
106. <i>Chlorophyll db</i>	0.1
107. <i>Chlorophyll dc</i>	0.1
108. <i>Chlorophyll dd</i>	0.1
109. <i>Chlorophyll de</i>	0.1
110. <i>Chlorophyll df</i>	0.1
111. <i>Chlorophyll dg</i>	0.1
112. <i>Chlorophyll dh</i>	0.1
113. <i>Chlorophyll di</i>	0.1
114. <i>Chlorophyll dj</i>	0.1
115. <i>Chlorophyll dk</i>	0.1
116. <i>Chlorophyll dl</i>	0

1 22 The article of manufacture of claim 17, wherein the conditional statements
2 provided with the attribute statements are members of the set of conditional statements
3 comprising:

4 a first conditional statement that determines whether the computer object indicates that
5 a specified vendor operating system is installed on the computer;
6 a second conditional statement that determines whether the computer object indicates
7 that a specified version of the operating system is installed on the computer;
8 a third conditional statement that determines whether the computer object indicates that
9 the computer includes a specified hardware platform;
10 a fourth conditional statement that determines whether the computer object indicates
11 that a specified software package having a specified version number is installed on the
12 computer;

13 a fifth conditional statement that determines whether the computer object indicates that
14 a specified software package having a specified version number or higher is installed on the
15 computer;
16 a sixth conditional statement that determines whether the computer object indicates that
17 a specified patch having a specified version number is installed on the computer;
18 a seventh conditional statement that determines whether the computer object indicates
19 that a specified patch package having a specified version number or higher is installed on the
20 computer; and
21 an eighth conditional statement that determines whether the computer object indicates
22 that the computer includes a specified architecture.

1 23. The article of manufacture of claim 17, wherein the computer object is further
2 capable of indicating a realization that defines a state of the computer, wherein the conditional
3 statements are further capable of determining whether realizations are included in the computer
4 object indicating the presence of the defined realization states at the computer, wherein the
5 attribute defined for the patch attribute statement is associated with the installation of the patch
6 to the computer if the at least one conditional statement is evaluated as true.

1 24. The article of manufacture of claim 17, wherein the patch attribute statement
2 includes multiple conditional statements and a different list of patches for each conditional
3 statement, wherein the attribute defined for the attribute statement is associated with the
4 installation of the patch to the system if the system includes the returned list of patches for the
5 conditional statement that evaluated as true.

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1 25. A computer readable medium including data structures for determining whether
2 to apply a patch including content to a computer, comprising:
3 a script program including at least one patch attribute statement, wherein each patch
4 attribute statement is called with at least one conditional statement that returns a list of one or
5 more patches if the at least one conditional statement evaluates as true based on a presence of a
6 software or hardware components in the computer on which the patch will be applied, and
7 wherein an attribute defined for the attribute statement is associated with the installation of the
8 patch to the computer if the computer includes the returned list of patches, and wherein the
9 script program and information on installed software and hardware components are processed
10 to determine whether to install the patch on the computer based on attributes of the installation
11 determined by the script program.

1 26. The computer readable medium of claim 25, wherein the patch attribute
2 statement is capable of comprising a patch requires statement, wherein the patch requires
3 attribute indicates that the patches in the returned patch list must be installed in the computer in
4 order for the patch to be installed in the computer.

1 27. The computer readable medium of claim 25, wherein the conditional and patch
2 attribute statements utilize a syntax that is similar to a syntax of commands capable of being
3 interpreted by a command processor interface of the computer operating system, and wherein
4 the syntax of the conditional and patch attribute statements prevent the conditional and patch
5 attribute statements from executing on the computer outside of a patch update interpreter that is
6 capable of interpreting the syntax of the conditional and patch attribute statements.

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1 28. The computer readable medium of claim 25, wherein the patch attribute
2 statements included in the script program are capable of including patch attribute statements
3 that are members of the set of patch attribute statements comprising:
4 a patch incompatible statement, wherein the patch incompatible attribute indicates that if
5 the patches in the returned patch list are installed in the computer, then the patch cannot be
6 installed in the computer; and
7 a patch prefers statement, wherein the patch prefers attribute indicates that the patches
8 in the returned patch list are recommended to be installed in the computer.

1 29. The computer readable medium of claim 25, wherein the patch attribute
2 statements are further capable of including a patch constraint attribute called with at least one
3 conditional statement, wherein the patch constraint attribute indicates that the patch can be
4 installed in the computer if each conditional statement evaluates as true.

1 30 The computer readable medium of claim 25, wherein the conditional statements
2 provided with the attribute statements are members of the set of conditional statements
3 comprising:
4 a first conditional statement that determines whether the computer object indicates that
5 a specified vendor operating system is installed on the computer;
6 a second conditional statement that determines whether the computer object indicates
7 that a specified version of the operating system is installed on the computer;
8 a third conditional statement that determines whether the computer object indicates that
9 the computer includes a specified hardware platform;
10 a fourth conditional statement that determines whether the computer object indicates
11 that a specified software package having a specified version number is installed on the
12 computer;

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13 a fifth conditional statement that determines whether the computer object indicates that
14 a specified software package having a specified version number or higher is installed on the
15 computer;

16 a sixth conditional statement that determines whether the computer object indicates that
17 a specified patch having a specified version number is installed on the computer;

18 a seventh conditional statement that determines whether the computer object indicates
19 that a specified patch package having a specified version number or higher is installed on the
20 computer; and

21 an eighth conditional statement that determines whether the computer object indicates
22 that the computer includes a specified architecture.

1 31. The computer readable medium of claim 25, wherein the computer object is
2 further capable of indicating a realization that defines a state of the computer, wherein the
3 conditional statements are further capable of determining whether realizations are included in the
4 computer object indicating the presence of the defined realization states at the computer,
5 wherein the attribute defined for the patch attribute statement is associated with the installation
6 of the patch to the computer if the at least one conditional statement is evaluated as true.

1 32. The computer readable medium of claim 25, wherein the patch attribute
2 statement includes multiple conditional statements and a different list of patches for each
3 conditional statement, wherein the attribute defined for the attribute statement is associated with
4 the installation of the patch to the system if the system includes the returned list of patches for
5 the conditional statement that evaluated as true.

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